

AN ENVIRONMENTAL ANALYTICAL LABORATORY

COMPREHENSIVE VALIDATION PACKAGE

ATL Applications INVENTORY SHEET

WORK ORDER # 0909547B

	Page	Nos.
	From	То
1. Work Order Cover Page & Laboratory Narrative & Table	1	3
2. Sample Results and Raw Data (Organized By Sample)	4	$\frac{3}{7}$
a. ATL Sample Results Form		
b. Target Compound Raw Data		
-Internal Standard Area and Retention Time Summary (If	Applicable)	
-Surrogate Recovery Summary (If Applicable)	,	
-Chromatogram(s) and Ion Profiles (If Applicable)		
3. QC Results and Raw Data		
a. Method Blank (Results + Raw Data)	-	-
b. Surrogate Recovery Summary Form (If Applicable)	-	-
c. Internal Standard Summary Form (If Applicable)	-	-
d. Duplicate Results Summary Sheet	-	-
e. Matrix Spike/Matrix Spike Duplicate (Results + Raw Data)	-	-
f. Initial Calibration Data (Summary Sheet + Raw Data)	-	
g. MDL Study (If Applicable)		-
h. Continuing Calibration Verification Data		
i. Second Source LCS (Summary + Raw Data)j. Extraction Logs		-
k. Instrument Run Logs/Software Verification		10
1. GC/MS Tune (Results + Raw Data)		12
4. Shipping/Receiving Documents:		
a. Login Receipt Summary Sheet	13	14
b. Chain-of-Custody Records	15	15
c. Sample Log-In Sheet	16	17
d. Misc. Shipping/Receiving Records (list individual records)		
Sample Receipt Discrepancy Report	-	
5. Other Records (describe or list)		
a. Manual Spectral Defense	-	
b. Manual Intergrations	-	-
c. Manual Calculations	-	
d. Canister Dilution Factors		-
e. Laboratory Corrective Action Request		
f. CAS Number Reference	18	19
g. Variance Table		
h. Canister Certification		
i. Data Review Check Sheet	20	20
,		
Completed by:		
Kara McKiernan/ Docume	ent Control	10/15/09
(Signature) (Print Name & T	itle)	(Date)



WORK ORDER #: 0909547B

Work Order Summary

CLIENT:

Mr. Taeko Minegishi

BILL TO: Ac

Accounts Payable

Environmental Health & Engineering,

Environmental Health & Engineering,

Inc.

Inc

117 Fourth Avenue

117 Fourth Avenue Needham, MA 02494

Needham, MA 02494

P.O. #

16512

PHONE: FAX:

800-825-5343

1.0...

PROJECT # 16512

DATE RECEIVED:

781-247-4305 09/25/2009

NOULCI #

DATE COMPLETED:

10/14/2009

CONTACT:

Ausha Scott

FRACTION#	NAME	TEST
16A	106673	ATL Applications
17A	106674	ATL Applications
18A	106693	ATL Applications
19A	106694	ATL Applications
20A	106695	ATL Applications
20AA	106695 Lab Duplicate	ATL Applications
21A	106696	ATL Applications
22A	106697	ATL Applications
23A	106698	ATL Applications
24A	106722	ATL Applications
25A	106723	ATL Applications
26A	106724	ATL Applications
26AA	106724 Lab Duplicate	ATL Applications
27A	106725	ATL Applications
28A	106726	ATL Applications
29A	106727	ATL Applications
30A	106751	ATL Applications
31A	106752	ATL Applications

Continued on next page



WORK ORDER #: 0909547B

Work Order Summary

CLIENT:

Mr. Taeko Minegishi

BILL TO:

Accounts Payable

Environmental Health & Engineering,

Environmental Health & Engineering,

Inc. 117 Fourth Avenue

117 Fourth Avenue

Needham, MA 02494

Needham, MA 02494

PHONE:

800-825-5343

P.O. #

16512

FAX:

781-247-4305

PROJECT #

16512

DATE RECEIVED:

09/25/2009

CONTACT:

Ausha Scott

DATE COMPLETED:

10/14/2009

FRACTION#

NAME

TEST

32A

Lab Blank Lab Blank

ATL Applications

32B 33A

CCV

ATL Applications ATL Applications

CERTIFIED BY:

Lenda d. Fruman

Laboratory Director

DATE:

10/14/09



LABORATORY NARRATIVE Ozone by Radiello 172 Environmental Health & Engineering, Inc. Workorder# 0909547B

Sixteen Radiello 172 (Ozone) samples were received on September 25, 2009. The procedure involves reaction of 4-pyridylaldehyde with 3-methyl-2-benzothiazolinone hydrazone to yield the corresponding azide. The absorbance is then measured at 430 nm using a spectrophotometer. Results are reported in uG and uG/m3.

Sampling rate of 24.6 mL/min was provided by the manufacturer.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Results were calculated based on 25 deg C without temperature correction. The actual exposure time was used to calculate sample concentrations and reporting limits.

An exposure time of 20160 minutes was used for the QC samples.

All media used for the sampling were supplied by the client. Blank subtraction was not performed on the sample results since the media used for Method Blanks may be from a different lot than the media used for the samples.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicate as follows:

- B Compound present in laboratory blank greater than reporting limit.
- J Estimated value.
- E Exceeds instrument calibration range.
- S Saturated peak.
- Q Exceeds quality control limits.
- U Compound analyzed for but not detected above the detection limit.
- M Reported value may be biased due to apparent matrix interferences.
- N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue

Sample Results and Raw Data

ATL Application # 62 for RAD 172 (Ozone) AIR TOXICS LTD.

Spectrophotometer

STOREST SECTION AND PERSONS	STREET, STREET	THE R. PAR. CHARLES SHARE MANAGEMENT OF PRINCIPLE SHARE SHAR						
%Rec		13	0.64	1.00	9/28/2009	NA	0909547B-33A	CCV
ND	ND	1.3	0.64	1.00	9/28/2009	NA	0909547B-32B	Method Blank
5	5	4.3	084	100	9/28/2009	8	0909547B-32A	Method Blank
ND	B	1.3	0.64	1.00	9/28/2009	9/22/2009	0909547B-31A	106752
3	3	3	0.94	00	2007000	O'LLL EVOC	00000110000	
17	5	3	084	18	DOUGHSCAD	PUUC/CC/P	0909547R-30A	106751
8	8	1.3	0.64	1.00	9/28/2009	NA	0909547B-29A	106727
8	8	14	0.64	1.00	9/28/2009	9/21/2009	0909547B-28A	106726
ND	N	1.4	0.64	1.00	9/28/2009	9/21/2009	0909547B-27A	106725
	1	1.0						
30	7	78	13	200	9/28/2009	9/21/2009	0909547B-26AA	106724 Lab Duplicate
31	14	2.8	1.3	2.00	9/28/2009	9/21/2009	0909547B-26A	106724
	3			1.00	200000			
	5		OR OF THE PERSON AND ASSESSED.	3	PUUC/8C/P	9/21/2009	0909547R-25A	106723
ND	N	1.4	0.64	1.00	9/28/2009	9/21/2009	0909547B-24A	106722
								The second secon
NOW ALLENS	5	13	0.64	1.00	9/28/2009	≸	0909547B-23A	106698
ND	N	1.4	0.64	1.00	9/28/2009	9/21/2009	0909547B-22A	106697
	3			1.00	01.E01.E00.0	OIL III OOO		
	j	11 11 11 11 11 11 11 11 11 11 11 11 11	日本 一年 一年 日本	3	0000000	0000 1000	0000547B-21A	106606
23	1	14	0.64	1.00	9/28/2009	9/21/2009	0909547B-20AA	106695 Lab Duplicate
23	1	1.4	0.64	1.00	9/28/2009	9/21/2009	0909547B-20A	106695
8	8	1.4	0.64	1.00	9/28/2009	9/21/2009	0909547B-19A	106694
N	8	*	0.64	1.00	9/28/2009	9/21/2009	0909547B-18A	106693
8	8	13	0.64	1.00	9/28/2009	¥	0909547B-17A	106674
B	8	1.4	0.64	1.00	9/28/2009	9/21/2009	0909547B-16A	106673
	(gn)	(ug/m3)	(ug)	Factor	Date	Date	Sample I.D.	Sample LD.
int Amount	Amount	Reporting I imit	Reporting Limit	Dilution	Analysis	Collection	Lab	Field

COMMENTS: 1. NA=Not Applicable
2. ND=Not Detected
3. Exposure time of 20160 minutes was assumed for the QC samples.
4. Background subtraction not performed.

unité		2.5536		20160					
		CCV Spike Amt		QC Duration					
0.638	5.016	2.487628662	1.00	20160	0.286	A	<	V))	33A
0.638	#DIV/OI	-0.040624154	1.00				Method Blank	X.	}
0.638	0.257	0.127336697	1.00	20160	0.019	NA	Method Blank	3	328
0.638	0.221	0.109656608	1.00	20160	0.017	A	Method Blank		32A
0.638	#DIV/0!	-0.040624154	1.00						
0.638	#DIV/O!	-0.040624154	1.00						
0.638	#DIV/O!	-0.040624154	1.00						
0.638	#DIV/0!	-0.040624154	1.00						
0.638	0.506	0.251097325	1.00	20160	0.033	9/22/2009	106752		ALE
0.638	0.667	0.330657728	1.00	20160	0.042	9/22/2009	106751		JUA
0.638	0.292	0.145016787	1.00	20160	0.021	*	106727		29A
0.638	1.025	0.472098445	1.00	18720	0.058	9/21/2009	106726		28A
0.638	0.776	0.357177862	1.00	18720	0.045	9/21/2009	106725		2/A
1.277	30.461	14.02746321	2.00	18720	0.798	9/21/2009	106724 Lab Duplicate		26AA
1.277	30.691	14.13354375	2.00	18720	0.804	9/21/2009	106724		26A
0.638	0.756	0.348337818	1.00	18720	0.044	9/21/2009	106723		25A
0.638	0.603	0.277617459	1.00	18720	0.036	9/21/2009	106722		24A
0.638	0.185	0.091976518	1.00	20160	0.015	*	106698		23A
0.638	0.968	0.445578311	1.00	18720	0.055	9/21/2009	106697		22A
0.638	0.833	0.383697997	1.00	18720	0.048	9/21/2009	106696		21A
0.638	23.158	10.66467011	1.00	18720	1211	9/21/2009	106695 Lab Duplicate		20AA
0.638	23.082	10.62930994	1.00	18720	1207	9/21/2009	106695		20A
0.638	0.545	0.251097325	1.00	18720	0.033	9/21/2009	106694		19A
0.638	0.718	0.330657728	1.00	18720	0.042	9/21/2009	106693		18A
0.638	0.578	0.286457504	1.00	20160	0.037	₹	106674		17A
0.638	0.545	0.251097325	1.00	18720	0.033	9/21/2009	106673		16A
RL(ug)	Conc (ug/m3)	Ozone Conc (ug)	P	Duration (min)	Abs	Date of Collection	Client	LabSampleID	
					account Temp	Ozone taking into account Temp	24.6	Corrected Q	
						J	9/28/2009	Date of Analysis:	
	Q x Duration	Slope		0	one	5 Typically 5 for Ozone		Volume (mL)	
Low PointxDF	Conc (ug) x 1000000	(Abs-Y-int)xDF				25 Typically 25	2:	Sampling T (deg C)	
					Ozone	24.6 Typically 24.6 for Ozone	24.	Sampling Rate (mL/min))	
						5465)095478	Workorder #: 09095478	
						l	rksheet	Ozone Radiello Calculation Worksheet	Ozo

1287	#DIV/0!	1.287	1.287	#DIV/0i	#DIV/0i	#DIV/OI	#DIV/OI	1287	1.287	1.287	1.386	1.386	2773	2773	1386	1.386	1287 .	1386	1.386	1.386	1.386	1.386	1.386	1.287	1.386	RL (ug/m3)		
2.487628662	ND	ND	ND -	N	B	8	8	N	NO -	N		ND	14.02746321	14.13354375	N	N		B		10.66467011	10.62930994	N	N		ND	Result (ug)		
5.016027597	#DIV/0! %Rec	ND	ND	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	ND	N	ND	6	ND	30.46058129	30.69093477	ND	ND	ND	ND	ND	23.15828928	23.08150479	ND	ND	ND	ND	Result (ug/m3) %Rec		
97																		hand entry		114	57	22.8	11.4	5.7	0	4-PA ug/mL ug Ozone	ug/ml*0.224*0.5mL	
																								0.6384 0.073	0	absorbance	24*0.5mL	
																							R2 0.9					
																						Complession of Special Control o	0.999963407	0.004595469	0.113121598			

QC Results and Raw Data

Spectrophotometer Logbook

@Air Toxics Ltd.

Logbook#: 1875

Work Order: 09 09547B

Date: 9/28/09

Method: Rad 172

Analyst: M. Skidmore

Wavelength: 430 nm

Standard ID	Concentration	ABS
	(concentration of 4-PA)	
Level 1 1858-55- E	5.7 mg/mi	0.073
Level 2 \ - 0	11,4 mg/mL	0,152
Level 3 - C	22,8 Mg/ML	0,292
Level 4 - B	57 MB/ML	0,731
Level 5 - A	114 mg/mL	1,447
ICV 1858-57	22,8 Mg/ML	0,273

ICV % Recovery = $\frac{93\%}{}$

Fraction	Dilution	ABS	Sample ID	Sample Volume	Comments
1614	100	0,033	106673	5,0 mL	
174		0.037	106674		
18A		0.042	106693		
191		0,033	106694		
aoA		1,207	106695		
20 AA		1,211	106695		
21A		0,048	106696		
aaA		0,055	106697		1
23A		0.015	106698		
24A		0.036	106722		
25 A		0,044	106723		
26A	2,00	0,036 0,044 5,000 0,000	106724		
26 AA		0,798	106724		
27A	1.00	0,045	106725		
28/1	ps.	0,058	106726		
29 A		0,021	106727		
30A		0,042	10.6751		
31/7		0,033	106752		
BIK		0.017	NA		
BIK		1000			
25		0,263			
CCV	1	0,286	V		

Procedure:

Mis all

10/5/09 Date

Spectrophotometer Standard Preparation Log	@Air Toxics Ltd.	Log Book #: 1858
	Salvanti D.T	H 20
Standard ID: 1858-54 Project: Rad 172 MBTH Solution	Solvent: D, I	NA
Analyst: M, SKi dwore		
Analyst: M. Skidwore Preparation Date: 2/28/0 535 9/28/09		3
Expiration Date: 9/28/00		
Procedure/Comments: Dissolve 2.5 g of	3-methy1-2-	- benzothiazolinone
hydrazone hydrochloride hydrate,	2916 (1416-11	06, located in EKIA
into 500 ML DI HaD and add	2,5 mL of	concentrated
sulforic acid		
		\rightarrow
	A CONTRACTOR OF THE PARTY OF TH	
	/	
		And the second s
		-
		/
		and the subsequence of the subsequence
		-
		The state of the s
		15
		91/20/109
		1/20/01
CA 1100 0 50/6/001		w/s/n o
Page 54 Signed Date	Reviewed	Date Rev. 8/97

Spectrophotometer Standard Preparation Log	@Air Toxics Ltd.	Log Book #: 1858
Standard ID: 1858-55 Project: Rad 172 Calibration Solution Analyst: M. Skidwore Preparation Date: 9/28/09 Expiration Date: 9/28/09	Solvent: DI	H20 N/A
Procedure/Comments:		
Dissolve 20 μl of 4-Pyridine-carboxaldehyde, 97% (147 D.I. H ₂ O. From this solution prepare dilutions at 1:2, 1: 114 μg/mL.	76-1103, located F22H:5, 1:10, 1:20. Stock S) in 200mL
1:2) 250 μ l Pyridine solution with 250 μ l of D.I. H ₂ O =	57 μg/mL.	*
1:5) 100 μ l Pyridine solution with 400 μ l of D.I. H ₂ O =	22.8 μg/mL.	1
1:10) 100 μ l Pyridine solution with 900 μ l of D.I. H ₂ O =	= 11.4 μg/mL	2
1:20) 250 μl Pyridine 1:10 solution with 250 μl of D.I. I (Then remove 250 μl of 1:10 solution to yield a final	$H_2O = 5.7 \mu g/mL$ volume of 0.5 mL)	· · · · · · · · · · · · · · · · · · ·
Then add 4.5 mL of MBTH solution to each level, stir a with parafilm). Then read absorbance at 430 nm.	and let stand for 1 hour	(cover
Note: 1 μg of 4-pyridylaldehyde = 0.224 μg of ozone.	MJS 9/28/09	,
		,
	mj 912	S 8/04
Page 55 Signed Date	Reviewed	10/5/09 Date Rev. 8/97

Spectrophotometer Standard Preparation Log	@Air Toxics Ltd. Log Book #: 1858
Standard ID: 1858-57 Project: TCV RAD 172 Analyst: Y Preparation Date: 9 28/0 7 Expiration Date: 9 28/0 7	Solvent: DI H20 Solvent Lot #: ~A
Procedure/Comments:	
Dissolve 20 μl of 4-Pyridine-carboxaldehyde, 97% (1476 D.I. H ₂ O. Stock Solution = 114 μg/mL. From this solution 1:5) 100 μl Pyridine solution with 400 μl of D.I. H ₂ O = 2. Then add 4.5 mL of MBTH solution to each level, stir and with parafilm). Then read absorbance at 430 nm.	on prepare a dilution at: 2.8 μg/mL.
Note: 1 μ g of 4-pyridylaldehyde = 0.224 μ g of ozone.	
	4 5/29/05
byother 9/28/09	10/5/09
Page 57 Signed Date	Reviewed Date Rev. 8/97

Shipping/ Receiving Documents



180 Blue Ravine Road, Suite B Folsom, CA 95630

Phone (916) 985-1000 FAX (916) 985-1020 Hours 8:00 A.M. to 6:00 P.M. Pacific

COMPANY:	Environmental Health & Engineering, Inc.	
ATTENTION:	Mr. Taeko Minegishi	
FAX #:	781-247-4305	
FROM:	Sample Receiving	
Workorder #:	0909547B	·
# of pages (Including Cover):	4	
40/45/0000		

10/15/2009

Thank you for selecting Air Toxics Ltd. We have received your samples and have found no discrepancies. In order to expedite analysis and reporting, please review the attached information for accuracy. Corrections can be faxed to **Ausha Scott at 916-985-1020.**

ATL will proceed with the analysis as specified on the Chain of Custody and Sample Login page.

Environmental Health & Engineering, Inc.

6

7**A**

8

19A

201

218

22A 23A

LHA

SA

KA

18A

30分

AI

Lab Data

CHAIN OF CUSTODY FORM

DATE: 9/24/09

Page 2 of 4

FROM: Environmental Health and Engineering, Inc. 117 Fourth Avenue Needham, MA 02494-2725 AIR TOXICS Please send invoices to ATTN: Accounts Payable Please send reports to ATTN: Data Coordinator In all correspondence regarding this matter, please refer to EH&E Project # _________ For EH & E Data Coordinator - URGENT DATA & OTHER:Time/Date/Vol. SAMPLE ID SAMPLE TYPE ANALYTICAL METHOD/NUMBER 106673 AIR PASSIVE SONE AMERSIS 106674 106693 106694 106695 106696 106697 106698 106722 106723 106724 106725 106726 106727 166751 106752 Special instructions: 包Standard turn around time ☐ Rush by date/time CUSTODY SEAL INTACT? ☐ Fax results 781-247-4305 Electronic transfer - datacoordina draid in the ☐ RETURN SAMPLES Each signatory please return one copy of this form to the above address Relinquished by: White of Environmental Health & Engineering, Inc. Date: _ Received by: ____of (company name) At (Date: 2 Relinquished by: ______of (company name) _____ Received by: ______of (company name) ______Date: ___ Relinquished by: ______of (company name) ______Date: _____ Received by: ______of (company name) _____ __Date: _____

Received by: _______of Environmental Health & Engineering, Inc.



SAMPLE RECEIPT SUMMARY

WORKORDER 0909547B

Client Date Promised: 10/06/09 11:59 pm
Phone Date Completed: 10/14/09

Mr. Taeko Minegishi
Environmental Health & 800-825-5343 Date Received: 9/25/09

Engineering, Inc. Fax PO#: 16512
117 Fourth Avenue 781 247 4205 Project#: 16512

Needham, MA 02494 781-247-4305

Sales Rep: TL Total \$: \$880.00 Logged By: MG

Fraction	Sample #	<u>Analysis</u>	Collected	Amount\$
16A	106673	ATL Applications	9/21/2009	\$50.00
17A	106674	ATL Applications	NA	\$50.00
18A	106693	ATL Applications	9/21/2009	\$50.00
19A	106694	ATL Applications	9/21/2009	\$50.00
20A	106695	ATL Applications	9/21/2009	\$50.00
20AA	106695 Lab Duplicate	ATL Applications	9/21/2009	\$0.00
21A	106696	ATL Applications	9/21/2009	\$50.00
22A	106697	ATL Applications	9/21/2009	\$50.00
23A	106698	ATL Applications	NA	\$50.00
24A	106722	ATL Applications	9/21/2009	\$50.00
25A	106723	ATL Applications	9/21/2009	\$50.00
26A	106724	ATL Applications	9/21/2009	\$50.00
26AA	106724 Lab Duplicate	ATL Applications	9/21/2009	\$0.00
27A	106725	ATL Applications	9/21/2009	\$50.00
28A	106726	ATL Applications	9/21/2009	\$50.00
29A	106727	ATL Applications	NA	\$50.00
30A	106751	ATL Applications	9/22/2009	\$50.00
31A	106752	ATL Applications	9/22/2009	\$50.00
32A	Lab Blank	ATL Applications	NA	\$0.00
32B	Lab Blank	ATL Applications	NA	\$0.00
1				

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.

Atlas Project Name/Profile#: CPSC Indoor Air Monitoring/13297

BILL TO: Accounts Payable

Environmental Health & Engineering, Inc.

117 Fourth Avenue

Needham, MA 02494

Analysis Code: Other GC

TERMS:

Reporting Method: ATL Application #62 Ozone-Radiello 172



SAMPLE RECEIPT SUMMARY Continued

Client

Phone

Fax

Date Promised: 10/06/09 11:59 pm

Mr. Taeko Minegishi

800-825-5343

Date Completed: 10/14/09

Environmental Health & Engineering, Inc.

Date Received: 9/25/09

117 Fourth Avenue Needham, MA 02494

PO#: 16512

781-247-4305

Project#: 16512

Sales Rep: TL

Total \$: \$880.00

Logged By: MG

Fraction

Sample #

Analysis

Collected

Amount\$

33A

CCV

ATL Applications

NA

\$0.00

Misc. Charges eCVP (16) @ \$5.00 each.

\$80.00

Note:

Samples received after 3 P.M. PST are considered to be received on the following work day.

Atlas Project Name/Profile#: CPSC Indoor Air Monitoring/13297

BILL TO:

Accounts Payable

Environmental Health & Engineering, Inc.

117 Fourth Avenue

Needham, MA 02494

Analysis Code: Other GC

TERMS:

Reporting Method: ATL Application #62 Ozone-Radiello 172

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

Other Records



Method: ATL Application #62 Ozone-Radiello 172

CAS Number	Compound	Rpt. Limit (ug)
10028-15-6	Ozone	1.0

@Air Toxics Ltd.

		DATA REVIEW CHECKLIST Work Order #: 09096478
$\mathbf{A_1}$	A ₂ R T M Q	01013111
		Analysis/Reporting vs. Project Profile/SOP requirements checked (i.e. 100% Dups, J-Flag to MDL, etc)
		The final report has the correct reporting list, special units, and header info. Lab Narrative is correct (proper method & description/Receiving & Analytical notes correct)
	MA 0/100 0	Sample Discrepancy Report (SDR) is completed
		Corrective Action issued - #
		Unusual circumstances have been documented in the notes section below
	LU	MEN validation report present and initialed CIRCLE (YES / NO)
		Lab Blank, CCV, LCS and DUP met QC criteria
	0 0 0 0	Hold time is met for all samples
	B 0/00	Appropriate data qualifier flags are applied
	MAY 0 中 0	Manual integrations for samples and QC are properly documented
		Samples analyzed within the project or method specific clock
		Retention times have been verified Appropriate ICAL(s) included
		At least one result per sample is verified against the target quant sheets/raw data
		Dilution factor correctly calculated (sample load volume, syringe and bag dilutions, can
		pressurization(s)) Correct amount of comple analyzed (i.e. comple not ever diluted)
П	-4 <u>4</u> ×□	Correct amount of sample analyzed (i.e. sample not over-diluted) Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg)
	1/EM []	TICs resemble reference spectra
	40~ 口	TICs between duplicate samples are consistent
		Checked samples for trends (i.e. Influent vs. Effluent, Field Dups, Field/Trip Blank, etc.)
		Data for multiple analyses of sample(s) has been evaluated for comparability of results
	四个000000000000000000000000000000000000	Special units for all samples in the final report are correctly calculated
0		Manually entered results checked (i.e. TPH/NMOC) Chain of Custody verified for any special comments (i.e. different compounds/RLs, action levels)
ū		Chain of Custody scanned correctly
		V. III I III
		Date MDL(s) performed per instrument(s)
		Samples pressurized w/ appropriate gas (N ₂ or He) Other (i.e. Tedlar bag, cartridge, sorbent)
	□ 13/1 □ 13/17	Final pressure consistent with canister size (6L vs. 1L)
		Verify receipt pressures Verify canister ID #'s
ш	12/h 12/h	Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)
	3	MDL date(s) present for all instruments utilized
	NOT 0 440 0	Client LUMEN report reviewed for accuracy and completeness
		NO MOCHET PLANT IN THE RESIDENCE OF A STATE OF THE STATE
	to include: noting so	amples with QA/QC problems, Blanks with positive hits, narratives, etc.)
<u>A/R:</u>		
-		
-		
140		
M/Q:	WATER THE PARTY OF	
	A ₁ /A ₂	R/T M Q
(/	Analytical Review/Date	
A_1	·	R: 1/1/12 & S M 1/1/169
22		
A_2	!	<u>T:</u>

Note (1): Please check all the appropriate boxes. Indicate "NA" for any statement that does not apply. Note (2): Management reviewer and reporting reviewer must be separate individuals.